

INTERNATIONAL SEARCH REPORT

International Application No

/US2004/024732

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F16K1/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F16K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	AT 6 052 U (TESMA MOTOREN UND GETRIEBETECH) 25 March 2003 (2003-03-25)	1, 11
A	page 3, last paragraph - page 4; figure 1	23, 32, 41
Y	WO 03/038322 A (BERGHOFF RUDOLF ; LINDE AG (DE); GARNREITER FRANZ (DE)) 8 May 2003 (2003-05-08) abstract; figures 1, 2	1, 11
A	US 6 354 466 B1 (KARPISEK LADISLAV STEPHAN) 12 March 2002 (2002-03-12) column 2, line 61 - column 3, line 59; figures 1, 2	1, 23, 32, 41
P, X	WO 03/090842 A (G A APPOLO LTD ; BIZER DIETRICH (US); LIEPOLD GERHARD (US)) 6 November 2003 (2003-11-06) cited in the application abstract	1, 23, 32



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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Date of the actual completion of the international search

2 December 2004

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Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
AT 6052	U	25-03-2003	AT 6052 U1	25-03-2003
WO 03038322	A	08-05-2003	DE 10152764 A1	08-05-2003
			BR 0213492 A	03-11-2004
			DE 20121953 U1	25-09-2003
			WO 03038322 A1	08-05-2003
			EP 1440263 A1	28-07-2004
			US 2004195535 A1	07-10-2004
US 6354466	B1	12-03-2002	AU 753361 B2	17-10-2002
			AU 1850299 A	14-10-1999
			WO 9951504 A1	14-10-1999
			CN 1131818 B	24-12-2003
			DE 69905466 D1	27-03-2003
			DE 69905466 T2	15-01-2004
			EP 1089915 A1	11-04-2001
			NZ 507295 A	20-12-2002
WO 03090842	A	06-11-2003	WO 03090842 A1	06-11-2003
			WO 03090843 A1	06-11-2003